7E & 7Ex Consumables & Repair Parts List

KEYPAD

Part #	Description
2907	Keypad assy (7E/ 7EA only)
94559	Keypad cable (7E/7EA/7Ex)
29200	Keypad (7Ex Only)

WIRING / BOARDS

94535	50 pin cable
2901	Size interface card
94537	Wire - size interface to chuck interface
2902	Chuck / axis interface card- electric chuck
2903	Chuck / axis interface -air chuck
94609	Service jumper
94569	Main Wiring Harness (7E Only)
94665	Main Wiring Harness (7Ex Only)

DISPLAY

Part #	Description
90975	Monitor /Display (7E / 7EA Only)
90899	Backlight Inverter board-90975 display REPLACMENT KIT FOR 2914 BOARD)
90974	Backlight Inverter kit-90907 display 2913 board
2906	display interface board (inside machine lid) 7E all lines
29424	Display Assembly 7Ex
94426	Display Cable 7Ex
29290	Hinge Block Right (display 7Ex)
29292	Hinge Block Left (display 7Ex)
22100121	longer screw for hinge block 7Ex - 8-32 x 1/2 button head cap screw

PROBING

90895	Probe Assembly (7E Only)
90922	C-body assembly
29430	Probe Assembly (7Ex Only)
27092	Probe tips
87246	Step Calibration Disk

MOTION CONTROL

Sizing Assembly

90543	Size leadscrew (Full Assembly)
28261	Size Leadscrew nut assembly (no bearings/blocks)
70186	Bearing (Front Size Lead-screw)
70311	Bearing (Rear -Size Lead-screw)
28257	rail - size short
28255	rail - size long
70153	bearing insert replacements
55323	servo motor
65520	coupler -servo
29103	Home Switch Vane
48338	Size Home switch Kit (required when replacing switch on 7E)
91009	Home Switch (only)
29142	Home switch Bracket
29434	Home Switch Plate
22100153	Screws 4-40 x 1/4 SHCS (4 required)

Axis

55323	servo motor
65520	coupler -servo
28333	Axis gearbox - hmsw style (Bearing) v2
28332	axis gearbox - encoder style (Bearing) v2
65168	shim .002
65169	shim .001
65171	shim .003
29147	Cover - Axis Gearbox

Bevel

90548	Bevel Leadscrew (Full Assembly)
28211	Bevel Leadscrew nut assembly (no bearings/blocks)
70186	Bearing (Left-Bevel Lead-screw)
70311	Bearing (Right-Bevel Lead-screw)
28205	rails bevel (need 2)
70153	bearing insert replacements
55323	servo motor
65520	coupler -servo
29103	Home Switch Vane
48337	Size Home switch Kit (required when replacing switch on 7E)
91009	Home Switch (only)
29142	Home switch Bracket
29434	Home Switch Plate
22100153	Screws 4-40 x 1/4 SHCS (4 required)

CUTTER MOTOR

80733	Cutter motor - no break
90601	Motor Controller (Universal) 115 (7E Only)
77320	Fuse (universal Controller) - 15 Amp
90604	Motor Controller Dynamic Breaking (7Ex Only)
77336	Fuse (Controller 7Ex) - 6.3 Amp (slow blow)
77292	Wall - switch - motor (7E Only)
90900	Relay (Main) - vacuum / cutter motor

POWER SUPPLY

3406	5V power supply
90919	24V power supply
90920	Power Supply Plate assy
77339	Power supply fuse (2.5A sub miniature)
77205	On/off switch 7E
94520	Wire (AC input to switch) white
94521	Wire (AC input to switch) black
94522	Wire (switch to line filter) white
94523	Wire (switch to line filter) black
77099	Power cord 7E
87445	Non-Conductive Screw Driver
77361	Power Receptacle AC (rear of machine)

VACUUM

Part #	Description
87181	Vacuum 12 Gallon (C-19 Plug) 115V
90153	Vacuum Motor Replacement Kit (Red Canister) 115V
80215	Vacuum Brushes "open style" (black head - red canister vac)
29043	Replacement Motor Kit (silver can vacuum) 115V
80214	Replacement Brush (silver can vacuum) - need 2
90140	Vacuum bag set (25 count)
90145	Vacuum bag set (10 count)
87150	Foam Filter Sleeve
87170	Vacuum Spring Clip
87175	Vacuum Crevice Tool
87155	Vacuum Hose 1.5" x 12'
87164	Vacuum Hose 2.5" x 6'
90500	Static Discharge Hose Assembly
87169	Inlet Deflector , Vacuum
94504	Adapter (Standard Vac to C-19)
90900	relay (Main) - vacuum / cutter motor
90913	vac switch assy - 3 position
77371	Vacuum Receptacle (New Style - C-19 vacuum)

CHUCK MOTOR / CLAMPING

90537	Chuck Motor Full Assembly (7E/7Ex product lines)
90539	clamp arm replacement kit
90369	force gauge assy kit (with instructions)
87433	chuck alignment tool
90089	Right side clamp - vario 22mm (short white)
90043	right side clamp- vario 19mm (short white)
90083	right side clamp - vario 17mm (short white)
90077	Right side clamp - Standard 22mm (long black)
90044	right side clamp - Standard 19mm (long black)
90076	right side clamp - Standard 17mm (long black)
90177	taper plug (6 pk) 22mm
90178	taper plug (6 pk) 17mm
73162	taper plug (individual) 19mm

ELECTRONICS ENCLOSURE

29500	Card Cage, USB - 7E 115V Only
2985	Interface Board -front of cage (configured 7E Only)
77920	I/O Board (interior left)
29504	Card Cage , USB - 7Ex (115V or 230V)
2894	Interface Board - front of cage (configured 7Ex Only)
77920	I/O Board (interior left)
95519	system Update & Backup - (usb cage only)
94631	USB TO DISK DRIVE
77341	Fuse - Drill rotation / 1.25 A

COOLANT & CHIP CHUTE

Part #	Description
28471	Coolant bottle assy internal
90767	water solenoid - internal coolant bottle
90938	coolant bottle assy external
90946	water solenoid - external bottle
94604	cable assy external bottle
90694	filter assy - coolant bottle
75158	filter element
94598	coolant interface board assy - wired
77339	fuse - coolant - 2.5 amp
29104	sponge - 7E/7Ex (pack of 10)
75170	Tri - Cool (quart)
74241	Blue Water Line
90901	chip chute assy
29106	chip chute top (clear part only)
90531	chip chute top assy (with manifold)
73061	spring (chip chute)
28456	hinge - chip chute cover
90373	solenoid assembly (chip chute cover lift)
94509	solenoid wiring harness

CUTTER BODY

90833	cutter body assy - hi luster
93148	cutter clamp - long
65232	torx screws - cutter clamp
87256	Torx Driver
93930	groove wheel - large
93410	groove wheel - small
90812	multi flute cutter assy
93131	cutter clamp - short / multi-flute
93148	cutter clamp - long (main cutter)
65232	torx screws - cutter clamp
93072	carbide cutter (10 pk)
93074	coated carbide cutter

DRILL LIMIT SWITCHES *(7Ex needs only switch; 7E needs all with switch*)*

90013	Upper Limit Switch - Drill
90014	Lower Limit Switch
29044	Bracket, Switch Drill 7Ex (need 1 if 7E)*
22100542	Screw 2-56x5/16 Button Head Cap Screw (7E needs 4)*
22100018	Screw 6-32x1/4 Socket Set Screw, cup point (7E needs 2)*
22100089	Screw 4-40x3/8 Button Head Cap Screw (7E needs 2)*
22100156	Screw 4-40x3/8 Socket Head Cap Screw (7E needs 2)*

DRILL

90908	drill assy (7E Only)
90909	drill spindle assy (7E Only)
90972	groove assy upgrade kit (7E Only)
90944	groove assy - no jumper- drill
94624	Drill -reverse direction jumper (7E -groove)
29468	Drill Upgrade Kit (7Ex) - if no drill in machine contains drill & accessories
29195	Combo Drill Assembly (7Ex) - full drill
91004	Drill Spindle -combo drill (7Ex)
29209	drill bit - left hand- long life
29218	drill bit - long life - standard
93936	groove blade - drill
90915	motor - spindle
90916	motor - pivot
29207	belt- drill
90692	pin gauge - 1.4 mm
77341	Fuse - Drill rotation/ 1.25 A
22100207	Screw 8/32 by 1/2 shcs ss (drill screws to base of machine)

DOOR / CASE TOP

7E Door

90942	Door Replacement Kit (7E Only)

Individual Components

90904	door roller assy, pinned "shaft with o-rings" (7E)
29481	door motor assembly (7E)
29126	Bracket Mount Door Switch "need 2" (7E)
90903	Door Assembly "door with bushings" (7E)
22100161	bracket screw(door switch)- 4/40 by 5/8 shcs
90910	door switch (single)
90981	door switch (double)
22100077	screw -(door switch to bracket) 2/56 by 3/8 bhcs
29154	door bushings (clear door)
73184	door o-rings
94595	door cable harness (7E)

7Ex Door Components

90079	Door Assembly 7Ex ONLY

INDIVIDUAL COMPONENTS

29154	Door bushings (clear door)*
77820	Magnetic Safety Switch "Pilz" (7Ex)
77825	Cable Magnetic Safety Switch (7Ex)
29483	Door Roller Assembly , pinned "shaft & o-rings" (7Ex)
29482	Door Motor Assembly, pinned (7Ex)
29270	Bracket Mount , switch - upper/door closed (7Ex)
29271	Bracket Mount , switch - lower/door open (7Ex)
22100161	Screw (bracket mount to machine) 4-40 x 5/8 SHCS
90910	Door switch (single)
73184	Door o-rings
22100077	screw -(door switch to bracket) 2/56 by 3/8 bhcs
29154	Door bushings (clear door)
94666	Door Cable Harness (7Ex)

OTHER CASE TOP COMPONENTS

90911	Fan Assembly "115V" (7E Only)
90121	Fan Assembly "24V" (7Ex Only)
77221	E-Stop (7Ex)
94692	E-Stop wiring Harness (7Ex)
82225	Lid Support Lift Cylinder
82227	Ball socket - lift cylinder (need 2)

SAFETY RELAYS & SWITCHES (7Ex)

77221	E-Stop (7Ex)
94692	E-Stop wiring Harness (7Ex)
77820	Magnetic Safety Switch "Pilz" (7Ex)
77825	Cable Magnetic Safety Switch (7Ex)
77397	Pilz Relay - (same for both in 7Ex)
94690	AC Pilz relay cable
94691	Cable Pilz - interface to card cage

ACCESSORIES & CONSUMABLES

87605	pattern blanks (ST109-C)
88501	6 base x 3mm test poly lenses (use this until in stock 92010571)
94504	cheater cord - stand vac to c-19
65411	cleaning wheel
87400	Dial Caliper
87450	3/16 -Long Handle Ball Driver
87452	3/16 - Tee Handle Wrench (Allen)
87462	3/32 - Tee Handle Wrench (Allen)
87256	Torx Driver
87445	Non Conductive Screw Driver (adjusting power supply)
87501	pin extractor tool
87179	Hex Key Set - 1/16 to 1/4 -L shape Allen
87410	Multi-Meter/ Volt Meter
90140	Vacuum bag set (25 count)
90145	Vacuum bag set (10 count)
77339	fuse - coolant - 2.5 amp
77341	Fuse - Drill rotation/ 1.25 A
77320	Fuse (universal Controller-7E) - 15 Amp
77336	Fuse (Controller 7Ex) - 6.3 Amp (slow blow)
90177	taper plug (6 pk) 22mm
90178	taper plug (6 pk) 17mm
73168	taper plug (individual) 17mm
73162	taper plug (individual) 19mm
73166	taper plug (individual) 22mm
27092	probe tips
73184	door o-rings
29154	door bushings (clear door)
29104	sponge - 7E/7Ex (pack of 10)
90694	filter assy - coolant bottle
75158	filter element
75170	Tri-Cool (quart)
93936	groove blade - drill
93930	groove wheel - large (dual Polish)
93410	groove wheel - small (Dual Polish)
93072	carbide cutter (10 pk)
93074	coated carbide cutter
65232	torx screws - cutter clamp
29209	drill bit - left hand- long life
29218	drill bit - long life - standard
50060	Barcode Scanner (Serial)
87342-11	User Manual 7E
87607-11	User Manual 7Ex
85031	Dust Cover (7E)